

# Mineral Industry Surveys

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## CRUSHED STONE AND SAND AND GRAVEL IN THE SECOND QUARTER 2002

An estimated 442 million metric tons of *crushed stone* were produced and shipped for consumption in the United States in the second quarter of 2002, a decrease of 1% compared with the same period of 2001. The estimated output of *crushed stone* produced for consumption in the first 6 months of 2002 was 723 million metric tons, an increase of 0.7% compared with the same period of 2001.

The estimated U.S. output of *construction sand and gravel* produced and shipped for consumption in the second quarter of 2002 was 317 million metric tons, an increase of 2.6% compared with the same period of 2001. The estimated output of *construction sand and gravel* produced for consumption in the first 6 months of 2002 was 502 million metric tons, an increase of 1.6% compared with the same period of 2001.

The above estimates are based on information reported to the U.S. Geological Survey quarterly sample survey by *crushed stone* and *construction sand and gravel* producers. The production for consumption of both *crushed stone* and *construction sand and gravel* were determined mostly by the level of activity in public, private, and commercial construction work. In the second quarter of 2002, there was a decrease of 4% in the U.S. portland cement consumption, compared with the same period of 2001.

The USGS quarterly survey on domestic production of *crushed stone* and *construction sand and gravel* has become a significant indicator of construction activity at the national as well as State level. This survey is a sample survey that generates production-for-consumption estimates by quarters for each State, except Alaska and Hawaii, and each geographic division, based on information reported voluntarily by a limited number of producing companies. Occasionally, the number of companies reporting in an area varies from quarter to quarter, or previously reported data by some companies are revised. As

a result of such changes in the size or the composition of the statistical sample, the estimated quantities for prior quarters are recalculated. The latest release of the quarterly Mineral Industry Surveys contains the most recent estimated totals and percentage changes and supersedes previously published similar information.

The production-for-consumption estimates for *crushed stone* and *construction sand and gravel* are generated independently for each State and each geographic division, which are treated as separate statistical sample areas. Therefore, some differences may exist between the total for a division and the sum of State totals that are part of the same geographic division.

The leading geographic divisions in the production of *crushed stone* sold or used in the second quarter of 2002 were the South Atlantic with 101 million metric tons, or 22.9% of the U.S. total, followed by the East North Central with 80.8 million metric tons, or 18.3%, and the West South Central with 58.7 million metric tons, or 13.3%.

The estimated *crushed stone* sold or used in the second quarter of 2002 decreased in five geographic divisions. The largest decreases were recorded in the West South Central (-7.6%), the East South Central (-5.2%), and the Middle Atlantic (-1.9%) divisions. Increases in the production of *crushed stone* were recorded in the Mountain (19.7%), the Pacific (5.3%), the New England (1.5%), and the West North Central (0.8%) divisions.

The leading geographic divisions for the total amount of *construction sand and gravel* sold or used in the second quarter of 2002 were the East North Central with 65.1 million metric tons, or 20.5% of the U.S. total, followed by the Pacific with 60.3 million metric tons, or 19%, and the Mountain with 58 million metric tons, or 18.3%.

The estimated *construction sand and gravel* sold or used in the second quarter of 2002 increased in five geographic divisions. The largest increases were recorded in the New England (21.2%), the Pacific (9.5%), and the East South Central (8.7%) divisions. Decreases were recorded in the West South Central (-10.6%), the South Atlantic (-5%), the Middle Atlantic (-2.1%), and the East North Central (-1.2%) divisions. The estimated totals by quarters for the geographic divisions do not include Alaska and Hawaii.

The five leading States in the production-for-consumption of *crushed stone* in the second quarter of 2002 were Texas, Pennsylvania, Florida, Ohio, and Illinois. Their combined total production-for-consumption represented 31.5% of the U.S. total. Production-for-consumption of *crushed stone* in the second quarter of 2002 declined in 18 of the 40 estimated States, with the largest decreases occurring in New Jersey (-39.8%), Washington (-25.1%), Utah (-23.9%), Kentucky (-17.1%), and Wisconsin (-13.4%). In the same period, production of *crushed stone* increased in 22 States, the largest increases being recorded in Idaho (101%), New Mexico (50.5%), Nevada (40.7%), Colorado (30.3%), and South Dakota (25.8%).

The five leading States in the production-for-consumption of *construction sand and gravel* in the second quarter of 2002 were California, Michigan, Texas, Ohio, and Colorado. Their

combined total production-for-consumption represented 37.8% of the U.S. total. Production-for-consumption of *construction sand and gravel* in the second quarter of 2002 increased in 21 of the 44 estimated States, with the largest increases occurring in Wyoming (97.8%), Connecticut (69.3%), Vermont (44.4%), Montana (43.2%), and Colorado (33%). In the same period, significant decreases in terms of percentages occurred in Maine (-25.1%), Missouri (-17.5%), Maryland (-15.1%), Kansas (-14.8%), and Virginia (-14.3%).

A total of 323 companies representing *crushed stone* and *construction sand and gravel* producers reported production-for-consumption information to the second quarter sample survey. The large participation of the producing companies in this survey is reflected by the high percentage coverage obtained for most geographic divisions and States. The percentage coverage indicates how much of the total estimated production-for-consumption for a State or a geographic division was actually reported by companies participating in this survey and was used to generate the estimated totals for that particular area.

The percent changes between the estimated production-for-consumption for the current quarter and the same quarter of the prior year included in this report are important indicators of the production/consumption trends occurring in a particular area of the country.

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TABLE 1  
CRUSHED STONE SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY DIVISION 1/

(Thousand metric tons and thousand dollars)

Region/Division	2001					2002					
	Quantity				Value total 2/	Quantity 1st qtr.	Per- cent change 3/	Quantity 2nd qtr.	Per- cent change 3/	Percent cover- age	Number of cos. 4/
	2nd qtr.	3rd qtr.	4th qtr.	Total 2/							
Northeast:											
New England	10,900	12,200	9,800	36,100	247,000	3,200	1.7	11,000	1.5	68	15
Middle Atlantic	54,100	58,100	47,100	182,000	1,090,000	23,200	1.4	53,100	-1.9	63	31
Midwest:											
East North Central	81,100	93,700	79,000	291,000	1,340,000	35,100	-4.3	80,800	-0.4	68	40
West North Central	44,200	49,900	42,800	163,000	886,000	26,700	1.5	44,600	0.8	54	36
South:											
South Atlantic	102,000	102,000	93,600	374,000	2,300,000	78,100	1.9	101,000	-0.8	84	49
East South Central	47,000	48,700	44,400	172,000	1,040,000	31,500	-1.0	44,600	-5.2	62	15
West South Central	63,600	62,600	54,500	227,000	993,000	52,200	12.8	58,700	-7.6	65	26
West:											
Mountain	15,700	17,500	14,000	56,600	308,000	11,200	19.9	18,800	19.7	45	22
Pacific 5/	27,000	27,800	24,700	98,900	610,000	20,600	6.5	28,500	5.3	45	31
Total 2/	446,000	472,000	410,000	1,620,000 6/	8,950,000 6/	282,000	3.4	442,000	-1.0	XX	XX

XX Not applicable.

1/ Quarterly totals shown are estimates based on a sample survey. Estimated quantities for prior quarters have been recalculated.

2/ Data may not add to totals shown because of independent rounding, and differences between projected totals by States and by divisions.

3/ All percentage changes are calculated using unrounded totals.

4/ Number of companies reporting for the quarterly survey.

5/ Does not include Alaska and Hawaii.

6/ Includes Alaska, Hawaii, and "Other" totals; see table 2, footnote 7.

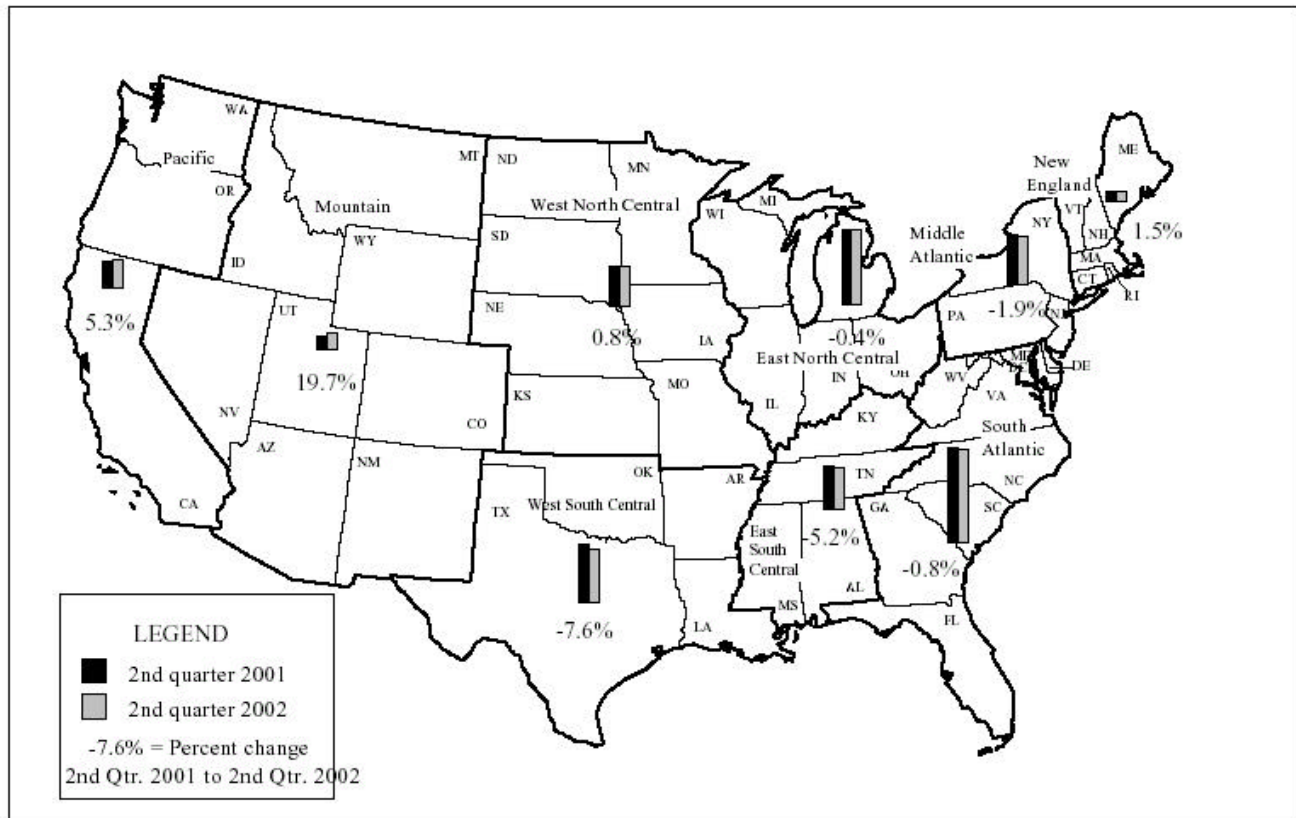


Figure 1 - Second quarter crushed stone production by geographic division

TABLE 2  
CRUSHED STONE SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY STATE 1/

(Thousand metric tons and thousand dollars)

State	2001					2002					
	Quantity				Value total 2/	Quantity 1st qtr.	Per- cent change 3/	Quantity 2nd qtr.	Per- cent change 3/	Percent cover- age	Number of cos. 4/
	2nd qtr.	3rd qtr.	4th qtr.	Total 2/							
Alabama	13,300	14,300	12,700	50,500	318,000	11,100	8.5	13,800	4.0	58	10
Alaska	(5/)	(5/)	(5/)	1,500	7,850	(5/)	(5/)	(5/)	(5/)	(5/)	(5/)
Arizona	(6/)	(6/)	(6/)	7,000	43,300	(6/)	(6/)	(6/)	(6/)	(6/)	(6/)
Arkansas	9,000	9,700	8,500	33,000	165,000	6,400	9.9	8,600	(4.2)	66	9
California	16,600	17,100	15,300	61,000	393,000	13,000	8.6	17,900	7.7	49	15
Colorado	3,900	4,200	3,300	13,500	87,700	2,700	21.7	5,100	30.3	75	7
Connecticut	2,100	2,300	2,000	7,000	60,900	500	(4.9)	2,100	(0.3)	110	4
Delaware	(5/)	(5/)	(5/)	(5/)	(5/)	(5/)	(5/)	(5/)	(5/)	(5/)	(5/)
Florida	23,100	22,700	23,500	90,000	494,000	24,500	18.5	25,600	10.7	69	10
Georgia 7/	20,300	20,400	18,400	76,000	463,000	16,600	(1.4)	20,000	(1.7)	101	7
Hawaii	(5/)	(5/)	(5/)	5,000	51,900	(5/)	(5/)	(5/)	(5/)	(5/)	(5/)
Idaho	1,000	1,500	1,300	4,800	20,800	800	(11.6)	1,900	101.0	39	4
Illinois 7/	20,800	24,700	21,900	78,000	417,000	9,400	(10.7)	21,300	2.4	68	10
Indiana	15,200	18,100	14,200	56,000	264,000	8,000	(5.3)	15,200	(0.2)	83	13
Iowa	11,000	11,800	10,700	38,000	204,000	5,000	11.5	11,900	7.9	50	6
Kansas	5,400	6,000	5,800	21,400	107,000	4,200	1.3	5,500	1.1	66	9
Kentucky	16,200	16,300	14,800	57,600	316,000	9,800	(5.6)	13,400	(17.1)	58	7
Louisiana	(6/ 7/)	(6/ 7/)	(6/ 7/)	(6/ 7/)	(6/ 7/)	(6/ 7/)	(6/ 7/)	(6/ 7/)	(6/ 7/)	(6/ 7/)	(6/ 7/)
Maine	1,000	1,200	800	3,400	20,200	400	6.7	1,000	(4.6)	67	4
Maryland 7/	6,500	7,100	6,600	24,000	139,000	4,600	21.0	6,700	2.5	109	9
Massachusetts	3,900	4,900	3,800	14,000	111,000	1,500	7.1	4,300	12.0	70	6
Michigan 7/	13,200	13,800	12,500	42,500	154,000	3,100	0.9	11,600	(11.8)	77	9
Minnesota	4,300	6,300	3,700	15,000	85,000	500	(35.7)	4,600	6.8	35	4
Mississippi	(6/ 7/)	(6/ 7/)	(6/ 7/)	3,300	31,800	(6/ 7/)	(6/ 7/)	(6/ 7/)	(6/ 7/)	(6/ 7/)	(6/ 7/)
Missouri	19,400	22,400	19,500	75,300	410,000	14,400	3.7	18,100	(6.6)	47	13
Montana	(6/)	(6/)	(6/)	3,200	13,600	(6/)	(6/)	(6/)	(6/)	(6/)	(6/)
Nebraska	2,500	2,200	1,900	8,100	53,600	1,500	2.0	2,400	(5.5)	101	6
Nevada	1,800	2,600	2,300	8,400	42,200	2,100	21.0	2,600	40.7	38	5
New Hampshire 7/	1,000	1,100	900	3,300	14,200	200	(2.2)	1,300	21.3	91	4
New Jersey	8,700	9,300	9,000	31,000	218,000	3,000	(26.7)	5,200	(39.8)	57	5
New Mexico	900	1,000	1,000	3,700	23,100	1,000	31.0	1,400	50.5	32	4
New York	15,700	17,400	12,900	50,200	322,000	5,900	38.4	16,600	5.4	72	9
North Carolina	19,500	18,700	16,800	68,400	485,000	12,300	(8.3)	18,900	(3.2)	97	11
North Dakota	(5/ 7/)	(5/ 7/)	(5/ 7/)	(5/ 7/)	(5/ 7/)	(5/ 7/)	(5/ 7/)	(5/ 7/)	(5/ 7/)	(5/ 7/)	(5/ 7/)
Ohio	22,500	25,800	21,600	80,000	366,000	10,500	3.8	23,900	6.1	72	12
Oklahoma	13,900	14,600	12,500	49,000	216,000	11,300	41.7	12,100	(13.2)	64	10
Oregon	5,000	6,300	4,800	19,800	96,900	3,700	1.2	5,800	16.0	50	11
Pennsylvania	29,500	31,200	25,400	101,000	553,000	14,400	(3.9)	30,600	3.9	61	20
Rhode Island	(6/)	(6/)	(6/)	3,300	19,300	(6/)	(6/)	(6/)	(6/)	(6/)	(6/)
South Carolina	7,300	7,300	6,700	27,200	180,000	5,800	(2.2)	7,300	0.9	80	5
South Dakota	1,400	1,900	1,300	5,400	26,000	600	(31.8)	1,800	25.8	100	6
Tennessee	16,700	17,200	15,800	60,500	372,000	10,200	(5.9)	16,100	(3.4)	73	8
Texas	40,900	38,200	33,400	145,000	612,000	34,800	7.2	38,000	(7.1)	62	12
Utah	3,300	3,700	2,200	11,000	56,000	1,600	(8.1)	2,500	(23.9)	40	4
Vermont	(6/)	(6/)	(6/)	5,100	21,600	(6/)	(6/)	(6/)	(6/)	(6/)	(6/)
Virginia	21,400	20,500	18,100	74,000	470,000	12,700	(9.4)	18,800	(12.1)	71	12
Washington	5,800	3,700	4,700	18,100	120,000	4,100	4.2	4,300	(25.1)	26	4
West Virginia 7/	3,800	5,100	3,500	14,500	65,400	2,100	2.8	4,200	8.9	58	6
Wisconsin	9,200	11,600	8,300	34,000	143,000	3,900	(19.9)	8,000	(13.4)	25	6
Wyoming	1,700	1,500	1,300	5,000	21,500	900	116.0	1,800	3.6	71	5
Other	XX	XX	XX	12,500	78,000	XX	XX	XX	XX	XX	XX
Total	XX	XX	XX	1,620,000	8,950,000	XX	XX	XX	XX	XX	XX

XX Not applicable.

1/ Quarterly totals shown are estimates based on a sample survey. Estimated quantities for prior quarters have been recalculated.

2/ Data may not add to totals shown because of independent rounding, and differences between projected totals by States.

3/ All percentage changes are calculated using unrounded totals.

4/ Number of companies reporting for the quarterly survey.

5/ State not included in quarterly survey.

6/ Owing to a low number of reporting companies, no production estimates by quarters were generated.

7/ To avoid disclosing proprietary data, certain State totals do not include all kinds of stone produced within the State; the portion not shown has been included with "Other."

TABLE 3  
SAND AND GRAVEL SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY REGION 1/

(Thousand metric tons and thousand dollars)

Region/Division	2001					2002					
	Quantity				Value total 2/	Quantity 1st qtr.	Per- cent change 3/	Quantity 2nd qtr.	Per- cent change 3/	Percent cover- age	Number of cos. 4/
	2nd qtr.	3rd qtr.	4th qtr.	Total 2/							
Northeast:											
New England	12,200	15,300	12,100	45,200	238,000	5,500	-2.8	14,700	21.2	24	22
Middle Atlantic	20,300	23,900	15,300	68,800	382,000	9,300	-0.4	19,900	-2.1	29	23
Midwest:											
East North Central	65,800	78,400	55,400	227,000	956,000	25,200	-8.6	65,100	-1.2	43	44
West North Central	29,600	39,800	25,200	103,000	385,000	7,900	-8.8	31,900	7.8	34	33
South:											
South Atlantic	22,100	21,200	19,800	80,600	399,000	17,700	1.4	21,000	-5.0	53	33
East South Central	11,900	11,700	10,900	41,800	195,000	8,900	22.7	13,000	8.7	39	16
West South Central	36,800	34,700	29,400	127,000	641,000	28,800	9.4	32,900	-10.6	41	13
West:											
Mountain	55,000	57,400	48,000	204,000	934,000	37,700	-12.7	58,000	5.4	40	29
Pacific 5/	55,000	61,100	52,100	208,000	1,290,000	43,800	9.8	60,300	9.5	56	29
Total 2/	309,000	344,000	268,000	1,120,000 6/	5,500,000 6/	185,000	-0.3	317,000	2.6	XX	XX

XX Not applicable.

1/ Quarterly totals shown are estimates based on a sample survey. Estimated quantities for prior quarters have been recalculated.

2/ Data may not add to totals shown because of independent rounding, and differences between projected totals by States and by divisions.

3/ All percentage changes are calculated using unrounded totals.

4/ Number of companies reporting for the quarterly survey.

5/ Does not include Alaska and Hawaii.

6/ Includes Alaska and Hawaii.

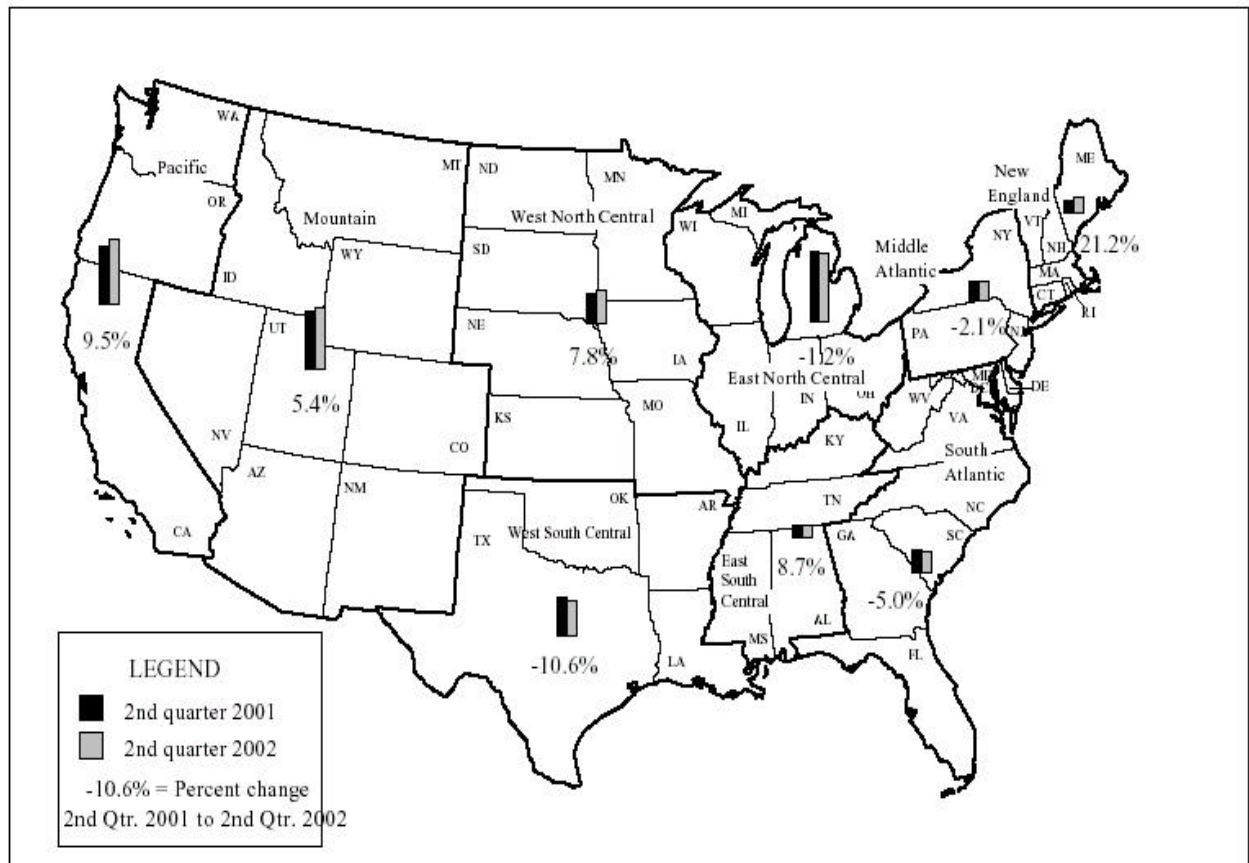


Figure 2 - Second quarter sand and gravel production by geographic division

TABLE 4  
SAND AND GRAVEL SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY STATE 1/

(Thousand metric tons and thousand dollars)

State	2001					2002					
	Quantity				Value	Quantity	Per- cent change 3/	Quantity	Per- cent change 3/	Percent cover- age	Number of cos. 4/
	2nd qtr.	3rd qtr.	4th qtr.	Total 2/	total 2/						
Alabama	3,500	3,400	3,100	13,000	58,100	2,900	-4.8	4,000	14.2	45	7
Alaska	(5/)	(5/)	(5/)	14,000	71,800	(5/)	(5/)	(5/)	(5/)	(5/)	(5/)
Arizona	14,700	14,100	13,000	56,600	294,000	12,800	-13.8	13,200	-10.3	68	7
Arkansas	2,900	3,400	2,500	10,700	53,800	2,100	13.5	2,600	-10.9	54	3
California	39,400	42,100	37,800	148,000	953,000	31,800	10.6	41,900	6.4	62	15
Colorado	10,500	12,800	9,600	39,500	197,000	5,900	-10.2	14,000	33.0	41	8
Connecticut	2,100	2,100	1,800	7,200	42,700	1,000	-14.1	3,600	69.3	31	6
Delaware	(6/)	(6/)	(6/)	2,420	13,100	(6/)	(6/)	(6/)	(6/)	(6/)	(6/)
Florida	6,400	6,100	6,200	24,600	110,000	6,300	7.5	6,800	7.0	64	8
Georgia	1,900	1,800	1,700	7,000	29,400	1,600	2.4	2,000	6.8	42	6
Hawaii	(5/)	(5/)	(5/)	650	6,970	(5/)	(5/)	(5/)	(5/)	(5/)	(5/)
Idaho	(6/)	(6/)	(6/)	17,200	55,500	(6/)	(6/)	(6/)	(6/)	(6/)	(6/)
Illinois	7,000	12,200	6,900	29,500	130,000	2,600	-20.7	6,800	-3.5	53	8
Indiana	8,600	7,600	6,100	28,200	124,000	5,500	-5.8	8,100	-6.2	52	7
Iowa	3,900	4,800	3,600	13,300	59,400	1,200	20.1	4,100	4.8	55	6
Kansas	3,100	3,000	2,500	10,200	29,100	1,800	8.3	2,600	-14.8	22	3
Kentucky	2,300	2,300	2,100	8,500	28,300	1,100	-36.6	2,200	-2.8	17	3
Louisiana	5,200	5,100	4,100	17,400	91,300	3,600	19.0	4,400	-14.2	50	3
Maine	2,900	3,600	2,400	9,600	37,900	600	-26.3	2,200	-25.1	16	4
Maryland	3,600	3,400	3,300	12,700	83,500	2,400	2.9	3,100	-15.1	45	4
Massachusetts	3,200	4,000	3,800	13,200	81,300	2,200	-0.1	3,400	6.4	20	6
Michigan	24,600	26,800	19,100	77,200	279,000	5,700	-14.5	25,700	4.3	39	10
Minnesota	9,600	15,900	8,800	35,500	144,000	700	-40.0	12,300	28.5	43	10
Mississippi	3,600	3,600	3,600	12,400	65,600	2,700	70.4	4,100	16.2	50	5
Missouri	3,300	3,600	2,700	11,500	45,400	1,400	-25.2	2,700	-17.5	51	4
Montana	2,600	4,700	3,000	11,000	45,600	1,300	69.9	3,700	43.2	42	3
Nebraska	3,500	3,700	2,100	10,700	36,300	1,900	29.6	3,300	-4.2	28	5
Nevada	9,800	6,700	8,600	33,100	157,000	7,000	-11.4	8,500	-13.7	18	4
New Hampshire	2,500	3,500	2,400	9,500	46,100	1,100	5.8	2,800	13.0	33	5
New Jersey	5,400	5,100	4,100	17,900	94,800	3,100	-7.4	4,800	-12.4	25	5
New Mexico	3,400	3,200	2,700	12,000	60,600	2,600	-0.8	3,400	-2.7	37	5
New York	8,800	12,500	6,000	30,800	162,000	3,800	8.5	8,900	0.3	26	10
North Carolina	3,000	2,900	2,300	10,800	54,000	2,300	-13.0	2,600	-11.2	32	4
North Dakota	(5/)	(5/)	(5/)	10,600	28,200	(5/)	(5/)	(5/)	(5/)	(5/)	(5/)
Ohio	15,600	19,000	13,700	55,000	280,000	6,700	-0.1	15,000	-3.7	50	15
Oklahoma	2,800	2,800	2,400	10,100	39,500	2,300	11.0	2,700	-6.1	51	6
Oregon	4,400	6,700	5,100	19,000	114,000	3,500	26.0	5,300	22.1	38	5
Pennsylvania	6,000	6,600	4,900	20,100	125,000	2,500	-2.4	6,100	1.7	38	10
Rhode Island	(6/)	(6/)	(6/)	1,120	9,000	(6/)	(6/)	(6/)	(6/)	(6/)	(6/)
South Carolina	2,700	2,800	2,200	10,100	40,500	2,000	-17.3	2,700	-0.8	46	4
South Dakota	3,600	4,100	2,500	11,500	42,500	800	-39.1	3,300	-9.5	16	6
Tennessee	2,500	2,300	1,900	7,910	43,100	1,900	67.5	2,300	-10.6	36	5
Texas	25,900	23,000	20,400	89,000	456,000	21,000	6.6	23,200	-10.3	36	9
Utah	7,500	8,500	7,000	27,800	99,500	2,900	-38.9	9,200	22.9	29	3
Vermont	1,100	1,900	1,400	4,600	21,300	400	35.1	1,600	44.4	25	4
Virginia	3,400	2,900	2,700	11,200	59,200	2,100	-6.5	2,900	-14.3	59	7
Washington	11,100	13,200	8,800	41,100	221,000	8,100	0.2	13,500	21.9	40	7
West Virginia	600	600	400	1,780	8,930	200	11.3	600	8.3	71	4
Wisconsin	10,400	12,600	10,300	37,300	143,000	3,600	-9.2	10,300	-1.5	25	10
Wyoming	1,800	2,000	1,700	6,510	24,800	900	-7.7	3,500	97.8	25	4
Total	XX	XX	XX	1,120,000	5,500,000	XX	XX	XX	XX	XX	XX

XX Not applicable.

1/ Quarterly totals shown are estimates based on a sample survey. Estimated quantities for prior quarters have been recalculated.

2/ Data may not add to totals shown because of independent rounding and differences between projected totals by States.

3/ All percentage changes are calculated using unrounded totals.

4/ Number of companies reporting for the quarterly survey.

5/ State not included in quarterly survey.

6/ Owing to a low number of reporting companies, no production estimates by quarters were generated.